

Proofs Involving Sets #7 (Proving Statements False by Means of a Counterexample)

FALL 2005

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Instructions. Disprove by providing a counter-example.

1. $(A \cup B)^c = A^c \cup B^c$

2. If A is a set with an infinite number of elements, then every subset of A has an infinite number of elements.

3. $A \subseteq (A \cap B)$